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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/812,557	03/30/2004	Sang-Tae Kim	04-09	3682
22443 7	590 12/11/2006		EXAMINER	
LAW OFFICE OF MONICA H CHOI			MAGEE, CHRISTOPHER R	
P O BOX 3424 DUBLIN, OH 430160204			ART UNIT	PAPER NUMBER
			2627	

DATE MAILED: 12/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/812,557	KIM ET AL.				
Office Action Summary	Examiner	Art Unit				
	Christopher R. Magee	2627				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status		•				
1) Responsive to communication(s) filed on 28 Se	eptember 2006.					
	action is non-final.					
· ·	on for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-14</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers		·				
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application						
Paper No(s)/Mail Date	6) Other:	Activity Physical Control of the Con				

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DETAILED ACTION

Response to Amendment

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1-3 and 7-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Lee (Korean Patent Application 10 20000025857).
 - Regarding claims 1 and 10, Lee teaches a disc drive comprising:
 - a tray 120 for holding a disc D;
- a lower case [not numbered but shown on page 20-17] on which the tray 120 is installed to be slid;
 - a loading motor 130 for providing a driving force that slides the tray; and
- a spindle motor [not numbered; inherent property of disc drive] having a turntable 122 and being installed on the tray 120,

wherein the disc is secured to the turntable for being rotated by the spindle motor that is installed on the tray[Figure 4 on page 20-9].

- Regarding claim 2, Lee shows a fixing unit 123 disposed by the turntable 122 for securely holding the disc to the turntable [Figure 12 on page 20-13].
- Regarding claims 3 and 11, Lee shows the fixing unit 123 securely holds the disc to the turntable at a perimeter of a clamping hole of the disk 1 [Figure 13 on page 20-14].

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• Regarding claims 7 and 12, Lee shows an optical pickup 124 installed on the tray, the optical pickup moving in a radial direction of the optical disc to write and/or reproduce information on the optical disc [Figure 16 on page 20-17].

• Regarding claims 8, 9, 13 and 14, Lee shows the disc drive is a slim vertical optical disc drive and is a half-height type disc drive [Figure 2 on page 20-8 and Figure 5 on page 20-10].

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee (Korean Patent Application 10 20000025857) as applied to claim 1 above, and further in view of Konno et al (hereinafter Konno) (US 6,907,611 B2).

Regarding claims 4 and 5, Lee shows all the features, *supra*, but does not show the fixing unit comprised of a plurality of hooks that elastically engage with a perimeter of a clamping hole of the disc and are disposed around a shaft of the spindle motor and above the turntable.

Konno teaches a clamp mechanism 30 that comprises of turntable 12, a rotation motor 32, a movable member 34, a spring 35 and a plurality of chuck claws 36 (i.e., hooks) functioning as holding members. The chucking claws 36 are disposed around a shaft of the spindle motor and above the turntable [Figures 2 and 3; col. 5, lines 40-45; col. 5, lines 55-57].

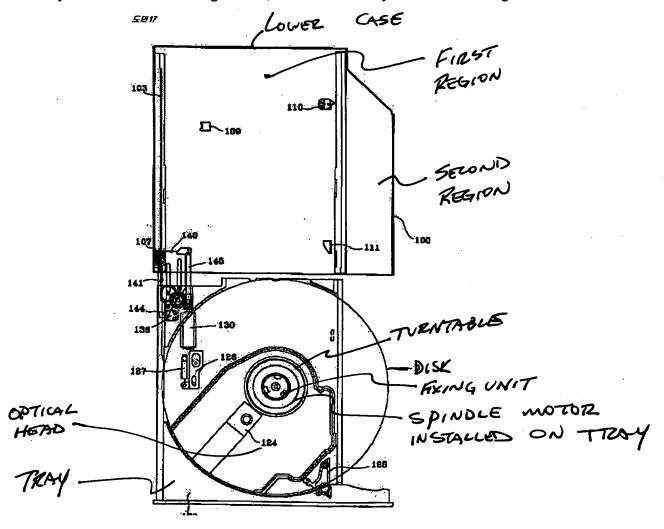
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It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the fixing device of Lee with the chucking claws of Konno.

The rationale is as follows: One of ordinary skill in the art at the time of the invention would have been motivated to provide the fixing device of Lee with the chucking claws of Konno in order to offer clamping and unclamping operations for sustaining a recording medium on a turntable, independently of which attitude the recording medium takes [Konno; col. 2, lines 50-57].

- Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lee (Korean Patent Application 10 20000025857) as applied to claim 1 above.
- Regarding claim 6, Lee shows all the features, *supra*, especially a first region in which the tray is slid and a second region 100, extended sideways from the first region.



Lee does not teach the loading motor 130 disposed in the second region. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to shift the location of the loading motor to the second region area.

The rationale is as follows: One of ordinary skill in the art at the time of the invention would have been motivated to shift the location of the loading motor to the second region area because it is mere shift location of parts. Moving the loading motor to the second region will not hamper or modify the overall operation of the disc drive. *In re Japikse*, 86 USPQ 70 (CCPA 1950).

Response to Arguments

3. Applicant's arguments filed 9/28/2006 have been fully considered but they are not persuasive. The Applicant asserts on page 5:

"However, Lee which does not even illustrate a spindle motor would not disclose, teach or suggest a spindle motor installed on the tray."

MPEP § 2125 clearly states "Drawings and pictures can anticipate claims if they clearly show the structure which is claimed. *In re Mraz*, 455 F.2d 1069, 173 USPQ 25 (CCPA 1972). However, the picture must show all the claimed structural features and how they are put together. *Jockmus v. Leviton*, 28 F.2d 812 (2d Cir. 1928). The origin of the drawing is immaterial. For instance, drawings in a design patent can anticipate or make obvious the claimed invention as can drawings in utility patents. When the reference is a utility patent, it does not matter that the feature shown is unintended or unexplained in the specification. The drawings must be evaluated for what they reasonably disclose and suggest to one of ordinary skill in the art. *In re Aslanian*,

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590 F.2d 911, 200 USPQ 500 (CCPA 1979). See MPEP § 2121.04 for more information on prior art drawings as 'enabled disclosures.'" In the instant case, the Examiner maintains that Lee shows a spindle motor that is installed on the tray as claimed in the present invention [see annotated figure above].

Therefore, the rejection of claims 1 and 10 is upheld along with the dependent claims therefrom.

Conclusion

- 4. The prior art made of record and not relied upon that is considered pertinent to applicant's disclosure has been annotated on PTO-492.
- 5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher R. Magee whose telephone number is (571) 272-7592. The examiner can normally be reached on M-F, 8: 00 am-4: 30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrea Wellington can be reached on (571) 272-4483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christopher R. Magee Patent Examiner Art Unit 2627

December 5, 2006 crm

SUPERVISORY PATENT EXAMINER